

Additionally, while several embodiments of the present disclosure have been shown in the drawings and/or discussed herein, it is not intended that the disclosure be limited thereto, as it is intended that the disclosure be as broad in scope as the art will allow and that the specification be read likewise. Therefore, the above description should not be construed as limiting, but merely as exemplifications of particular embodiments. And, those skilled in the art will envision other modifications within the scope and spirit of the claims appended hereto. Other elements, steps, methods and techniques that are insubstantially different from those described above and/or in the appended claims are also intended to be within the scope of the disclosure.

[0658] The embodiments shown in the drawings are presented only to demonstrate certain examples of the disclosure. And, the drawings described are only illustrative and are non-limiting. In the drawings, for illustrative purposes, the size of some of the elements may be exaggerated and not drawn to a particular scale. Additionally, elements shown within the drawings that have the same numbers may be identical elements or may be similar elements, depending on the context.

[0659] Where the term “comprising” is used in the present description and claims, it does not exclude other elements or steps. Where an indefinite or definite article is used when referring to a singular noun, e.g., “a,” “an,” or “the,” this includes a plural of that noun unless something otherwise is specifically stated. Hence, the term “comprising” should not be interpreted as being restricted to the items listed thereafter; it does not exclude other elements or steps, and so the scope of the expression “a device comprising items A and B” should not be limited to devices consisting only of components A and B. This expression signifies that, with respect to the present disclosure, the only relevant components of the device are A and B.

[0660] Furthermore, the terms “first,” “second,” “third,” and the like, whether used in the description or in the claims, are provided for distinguishing between similar elements and not necessarily for describing a sequential or chronological order. It is to be understood that the terms so used are interchangeable under appropriate circumstances (unless clearly disclosed otherwise) and that the embodiments of the disclosure described herein are capable of operation in other sequences and/or arrangements than are described or illustrated herein.

What is claimed is:

1. An infusion apparatus, comprising:
 - a drip-chamber seat configured to receive a drip chamber;
 - a tube seat configured to receive a tube fluidly coupled to the drip chamber, the tube including a plurality of conduits for fluid flow therethrough;
 - a plunger configured to engage with the tube; and
 - a user actuator configured to actuate the plunger.
2. The apparatus according to claim 1, wherein the user actuator is a knob.
3. The apparatus according to claim 1, further comprising an indicator configured to indicate a position corresponding to a position of the plunger.
4. The apparatus according to claim 1, further comprising an indicator wheel configured to indicate a position corresponding to a position of the plunger by displaying an indicator label viewable through a window of a housing of the infusion apparatus.

5. The apparatus according to claim 1, wherein the tube seat includes a channel defining a path configured to position the tube, the tube seat having two receiving surfaces sloped inward toward the channel along a length of the channel.

6. The apparatus according to claim 5, wherein each of the two receiving surfaces define a plane disposed parallel to an axis defined by the length of the channel.

7. The apparatus according to claim 5, further comprising at least one retaining flange protruding from a wall of the channel.

8. The apparatus according to claim 1, further comprising at least one retaining flange protruding from a wall of the tube seat.

9. The apparatus according to claim 1, wherein the drip-chamber seat includes a first shelf at an opening of a channel of the tube seat.

10. The apparatus according to claim 9, wherein the drip-chamber seat further includes a second shelf disposed a predetermined distance from the opening of the channel of the tube seat.

11. The apparatus according to claim 1, wherein the drip-chamber seat includes at least one chamber-retaining flange.

12. The apparatus according to claim 11, wherein the at least one chamber-retaining flange protrudes toward the drip chamber.

13. The apparatus according to claim 1, wherein the user actuator is a knob having an internal threaded region, wherein an end of the plunger is disposed within the internal threaded region of the knob and defines complementary threads.

14. The apparatus according to claim 13, further comprising a housing having a slot, wherein the knob is disposed within the slot of the housing, wherein the slot is configured to allow the knob to rotate around a central axis of the knob.

15. The apparatus according to claim 14, wherein the knob is retained a predetermined distance from the channel.

16. The apparatus according to claim 15, wherein rotation of the knob actuates the plunger.

17. The apparatus according to claim 1, further comprising a housing having a slot, wherein the user actuator is a knob disposed within the slot of the housing, wherein the slot is configured to allow the knob to rotate around a central axis of the knob.

18. The apparatus according to claim 17, wherein the knob further comprises a knob gear disposed around a central axis of the knob configured to rotate with the knob.

19. The apparatus according to claim 18, further comprising a shaft disposed parallel to the central axis of the knob, wherein a first end of the shaft includes a first gear, wherein the first gear engages with the knob gear.

20. The apparatus according to claim 19, further comprising an indicator wheel, wherein a second end of the shaft includes a second gear configured to engage with an indicator-wheel gear disposed on the indicator wheel.

21. The apparatus according to claim 20, wherein the length of the shaft is disposed orthogonal to an axis defined by the length of the channel.

22. The apparatus according to claim 21, wherein the shaft is disposed at a side of the channel opposite to the two receiving surfaces.

23. The apparatus according to claim 1, wherein the infusion apparatus is a hand-actuated infusion apparatus.